iMcV-MediaLinX Series

10/100/1000 Mbps and Standard and Extended Temperature (IE)
10/100 Ethernet SNMP-Manageable, Switching Media Converters

RoHS Compliant

SWITCHING

The MediaLinX series offers the most flexible Ethernet switching media converters in the industry.

Features and Benefits

Same unit converts speed, media and duplex mode!

- Available in 10/100 Mbps and 10/100/1000 Mbps models
- IE-iMcV-MediaLinX supports SFP (LC) transceivers and extended operating temperatures
- Configure twisted pair port for Auto Negotiation or force the speed
- Twisted pair and fiber ports can be individually configured for Half- or Full-Duplex operation

Easy to configure and manage with GUI-based iView²

- Up and running in less than 5 minutes
- Easily adjust settings when user requirements change
- Easy upgrades; no user intervention or visits to remote locations required
- Monitor and control all connections

Meets a variety of installation requirements

- Available for multi-mode, single-mode and CWDM fiber
- Available with single-strand fiber

Eases Troubleshooting

- LinkLoss, FiberAlert, SNMP management and LEDs assist in diagnosing problems on fiber optic networks
- Features Link Fault Pass-Through (LFPT), a troubleshooting feature that monitors the copper and fiber ports of the unit; if a port loses LINK, the unit disables the transmitting signal on the other port (Pass-Through) and notifies the user via LED
- Supports *Config Control*, a feature that retains the latest configuration on a module regardless of how the initial configuration was setup; whether by DIP Switch or SNMP Management Module (available on iMcV-MediaLinX)*

Dissimilar media types, protocols and duplex settings can make LAN internetworking and Fiber-to-the-Subscriber projects challenging undertakings. For example, if the service provider's network infrastructure is 100 Mbps or Gigabit fiber, but the customer wants to receive a standard 10 Mbps Ethernet interface to their LAN; making the connection between the two network segments can be difficult. The complexity of today's mixed media networks and the increasing demand for bandwidth requires access equipment that is both flexible in connecting different media types and scalable between different speeds.

Convert speed, media and duplex mode:
The iMcV-MediaLinX series of switching media converters offers service providers and enterprise networks unparalleled flexibility in connecting copper-based networks to Fast Ethernet or Gigabit fiber optic infrastructures. The SNMP-manageable iMcV-MediaLinX converters allow device managers to use Auto Negotiation functionality on the twisted pair port for plug-and-play operation, or to manually configure the port for the desired speed and duplex mode. What's more, you can even set the fiber port for Half- or Full-Duplex operation (10/100 Mbps only). The iMcV-MediaLinX series includes three models:

The iMcV-MediaLinX supports Config Control, a feature that retains the latest configuration on the module regardless of how the initial configuration was setup; whether through DIP Switch settings or the SNMP Management Module's configuration. This feature is beneficial when 1) changing the settings of a currently installed iMcV-Module through iView², 2) replacing the same type of iMcV-Module, or 3) installing a new or different type of iMcV-Module.

The iMcV-MediaLinX series also includes troubleshooting features and LEDs to assist in network diagnostics as well as make isolating cable breaks easier should they occur. In addition, hot-swappable iMcV-MediaLinX modules significantly reduce operating costs by allowing other modules within the same chassis to remain up and running during product upgrades, maintenance and troubleshooting.

** iView² v.1.8.9 and SNMP firmware v. C4 must be installed to use the Config Control feature.*

Technical Specifications

IE-iMcV-MediaLinX TX/SFP

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IE-SFP 100/155 Mbps (OC-3)
- Supports jumbo packets up to 1916 bytes
- Supports Config Control

iMcV-MediaLinX

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3u 100Base-FX or SX fiber
- Supports jumbo packets up to 1916 bytes
- Supports Config Control

iMcV-Giga-MediaLinX

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T twisted pair
- IEEE 802.3z 1000Base-LX or SX fiber
- Supports packets up to 1632 bytes

All Modules

- **Connectors:** RJ-45 and ST, SC, LC or SFP
- IEEE 802.3x Flow Control
- AutoCross for MDI/MDIX
- Features LinkLoss and FiberAlert
- Features Link Fault Pass-Through (LFPT)
- Features Auto Negotiation and Selective Advertising
- Layer 2 packet switching, store and forward operation
- Forwarding rate: 14,881 pps for 10 Mbps; 148,810 pps for 100 Mbps; 1,488,100 pps for 1000 Mbps (Gig only)
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- Available for single-strand fiber
- Installs in any iMediaChassis or MediaChassis
- Supports GUI-Based iView²
- Supports Half- and Full-Duplex operation
- Includes diagnostic LEDs
- Includes hot-swappable architecture

Regulatory Approvals:

- FCC Class B
- CE

Shipping Weight:

0.30 lbs (.11 kg)

Operating Temperature:

+32° to +122° F (0° to +50° C);
-40° to +185° F (-40° to +85° C) *IE-iMcV-MediaLinX*;
5% to 95% (non-condensing), 0 – 10,000 ft. altitude

Storage Temperature:

-13° to +158° F (-25° to +70° C);
5% to 95% (non-condensing)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART NUMBER	DESCRIPTION	DISTANCE
IE-iMcV-MediaLinX TX/SFP 10/100 to 100 Mbps Modules		
856-18700	iMcV-MediaLinX, TX/SFP §	Varies
iMcV-MediaLinX 10/100 to 100 Mbps Modules		
856-15711	iMcV-MediaLinX, TX/FX-MM850-ST	2 km
856-15712	iMcV-MediaLinX, TX/FX-MM850-SC	2 km
856-15713	iMcV-MediaLinX, TX/FX-MM1300-ST	5 km
856-15714	iMcV-MediaLinX, TX/FX-MM1300-SC	5 km
856-15717	iMcV-MediaLinX, TX/FX-SM1310/PLUS-ST	40 km
856-15718	iMcV-MediaLinX, TX/FX-SM1310/PLUS-SC	40 km
856-15719	iMcV-MediaLinX, TX/FX-SM1310/LONG-ST	80 km
856-15720	iMcV-MediaLinX, TX/FX-SM1310/LONG-SC	80 km
856-15723	iMcV-MediaLinX, TX/FX-SM1550/LONG-SC	80 km
iMcV-MediaLinX 10/100 to 100 Mbps Single-Strand Fiber Modules *		
856-15731	iMcV-MediaLinX, TX/SSFX-SM1310-SC (1550rcv)	20 km
856-15732	iMcV-MediaLinX, TX/SSFX-SM1550-SC (1310rcv)	20 km
856-15733	iMcV-MediaLinX, TX/SSFX-SM1310/PLUS-SC (1550rcv)	40 km
856-15734	iMcV-MediaLinX, TX/SSFX-SM1550/PLUS-SC (1310rcv)	40 km
856-15735	iMcV-MediaLinX, TX/SSFX-SM1310/LONG-SC (1550rcv)	60 km
856-15736	iMcV-MediaLinX, TX/SSFX-SM1550/LONG-SC (1310rcv)	60 km

§ SFP modules are sold separately. For more information on compatible IMC Networks SFPs, go to: www.imcnetworks.com/Products/product.cfm?family=32

PART NUMBER	DESCRIPTION	DISTANCE
iMcV-Giga-MediaLinX 10/100/1000 to 1000 Mbps Modules		
856-11959	iMcV-Giga-MediaLinX, TX/SX-MM850-ST	550 m
856-11950	iMcV-Giga-MediaLinX, TX/SX-MM850-SC	550 m
856-11951	iMcV-Giga-MediaLinX, TX/LX-SM1310-SC	15 km
856-10951-LC	iMcV-Giga-MediaLinX, TX/LX-SM1310-LC	15 km
856-11952	iMcV-Giga-MediaLinX, TX/LX-SM1310/PLUS-SC	40 km
856-11953	iMcV-Giga-MediaLinX, TX/LX-SM1550/LONG-SC	80 km
856-11958	iMcV-Giga-MediaLinX, TX/LX-SM1550/XLONG-SC	100 km
iMcV-Giga-MediaLinX 10/100/1000 to 1000 Mbps Single-Strand Fiber Modules *		
856-11940	iMcV-Giga-MediaLinX, TX/SSLX-SM1310-SC (1550rcv)	10 km
856-11941	iMcV-Giga-MediaLinX, TX/SSLX-SM1550-SC (1310rcv)	10 km
856-11933	iMcV-Giga-MediaLinX, TX/SSBX-SM1310-SC (1490rcv)	10 km
856-11935	iMcV-Giga-MediaLinX, TX/SSBX-SM1490-SC (1310rcv)	10 km
856-11937	iMcV-Giga-MediaLinX, TX/SSBX-SM1310/PLUS-SC (1490rcv)	30 km
856-11939	iMcV-Giga-MediaLinX, TX/SSBX-SM1490/PLUS-SC (1310rcv)	30 km
856-11942	iMcV-Giga-MediaLinX, TX/SSLX-SM1310/PLUS-SC (1550rcv)	40 km
856-11943	iMcV-Giga-MediaLinX, TX/SSLX-SM1550/PLUS-SC (1310rcv)	40 km
856-11954	iMcV-Giga-MediaLinX, TX/SSLX-SM1490/LONG-SC (550rcv)	70 km
856-11955	iMcV-Giga-MediaLinX, TX/SSLX-SM1550/LONG-SC (1490rcv)	70 km

* *These products have single-strand fiber technology. For more information go to:* www.imcnetworks.com/products/SSFX.cfm

IE-SFP Modules: 100 to 155 Mbps (OC-3)

PART NUMBER W/ DDMI	PART NUMBER W/O DDMI	PORT DESCRIPTION	FIBER	DISTANCE	POWER BUDGET (db)
808-38101	808-38111	MM850	LC	2 km	14.5
808-38102	808-38112	MM1300	LC	2 km	15
808-38103	808-38113	SM1310	LC	15 km	13
808-38104	808-38114	SM1310/PLUS	LC	40 km	31
808-38105	808-38115	SM1550/LONG	LC	80 km	31
808-38525	808-38535	SSFX-SM1310/1550/LONG	LC	60 km	31
808-38526	808-38536	SSFX-SM1550/1310/LONG	LC	60 km	31

IMC Networks
Headquarters
19772 Pauling
Foothill Ranch, CA 92610
TEL: 949-465-3000
FAX: 949-465-3020
sales@imcnetworks.com

IMC Networks
Europe
Herseltsesteenweg 268
B-3200 Aarschot, Belgium
TEL: +32-16-550880
FAX: +32-16-550888
eurosales@imcnetworks.com

IMC Networks
Eastern US/Latin America
28050 U.S. Hwy. 19 North, Suite 306
Clearwater, FL 33761
TEL: 727-797-0300
FAX: 727-797-0331
latinsales@imcnetworks.com

IMC Networks
Fiber Consulting Services
For information call:
TEL: 949-465-3000
1-800-624-1070 (US/CAN)
+32-16-550880 (Europe)
fcs@imcnetworks.com

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